(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 1 September 2005 (01.09.2005)

PCT

(10) International Publication Number WO 2005/079648 A1

(51) International Patent Classification7: A47L 5/32, 9/24

(21) International Application Number:

PCT/GB2005/000295

(22) International Filing Date: 27 January 2005 (27.01.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0403881.6

21 February 2004 (21.02.2004) GF

(71) Applicant (for all designated States except US): SMITHS GROUP PLC [GB/GB]; 765 Finchley Road, London NW11 8DS (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BATTLE, Philip, Peter [GB/GB]; 25 Station Road, Balfron, Glasgow G63 OSX (GB). **GIBSON, Diane** [GB/GB]; 11 Bannerman Place, Clydebank G81 2UG (GB). **MCGAW, Derek, Robert, Harkness** [GB/GB]; 8 Crossburn Avenue, Milngavie, Glasgow G62 6DS (GB).

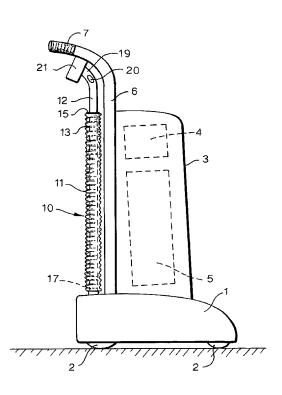
(74) Agent: FLINT, Jonathan, Mcneill; 765 Finchley Road, London NW11 8DS (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: VACUUM CLEANER APPARATUS



(57) Abstract: An upright vacuum cleaner has a hose assembly (10, 10') attached at one end to the base (1, 1') of the cleaner. The hose assembly is stowed alongside the handle (6, 6') and is retained by the free end (19) of the assembly engaging a fixture (21) on the handle. The hose assembly (10, 10') comprises a rigid wand (12, 12') and a flexible hose (11, 11') with a natural extended length. The hose can be retracted to a shorter length using the power of the vacuum cleaner by closing a valve (20, 20') on the wand (12, 12') to prevent air flow along the hose assembly and produce a reduced pressure. The wand (12, 12') is stowed by sliding inside or outside the hose (11, 11') and has a flange (18, 18') at one end that engages and seals with a flange (15, 15') at the free end of the hose when the wand is extended.

WO 2005/079648 A1

WO 2005/079648 A1

GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to the identity of the inventor (Rule 4.17(i)) for all designations
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM,

PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,

of inventorship (Rule 4.17(iv)) for US only

GW, ML, MR, NE, SN, TD, TG)

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.